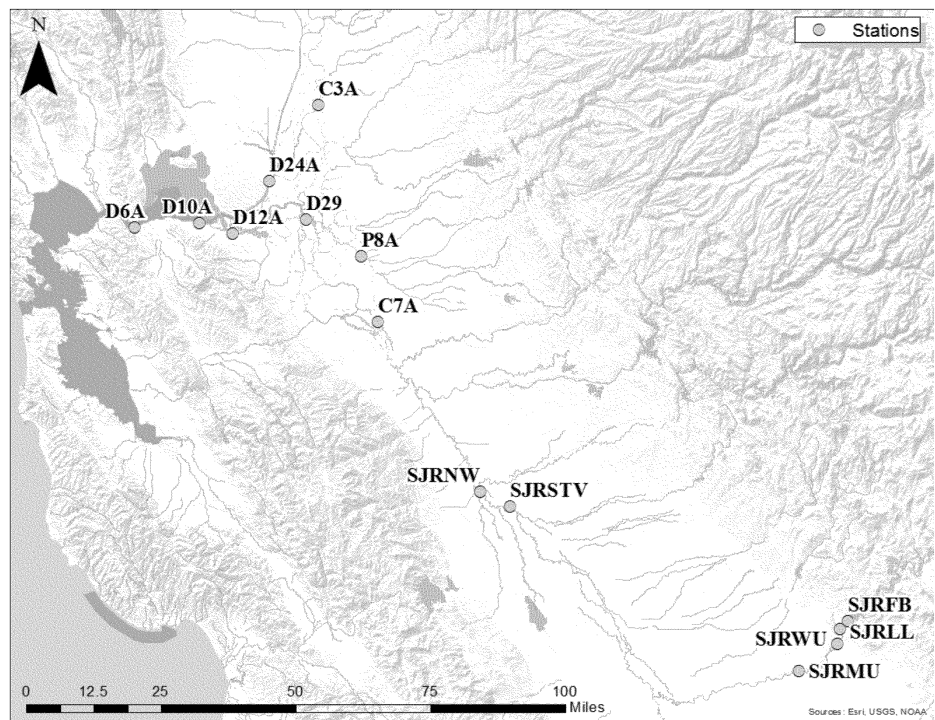


# Assessment of Temperature Data for the 2014-16 303(d) List

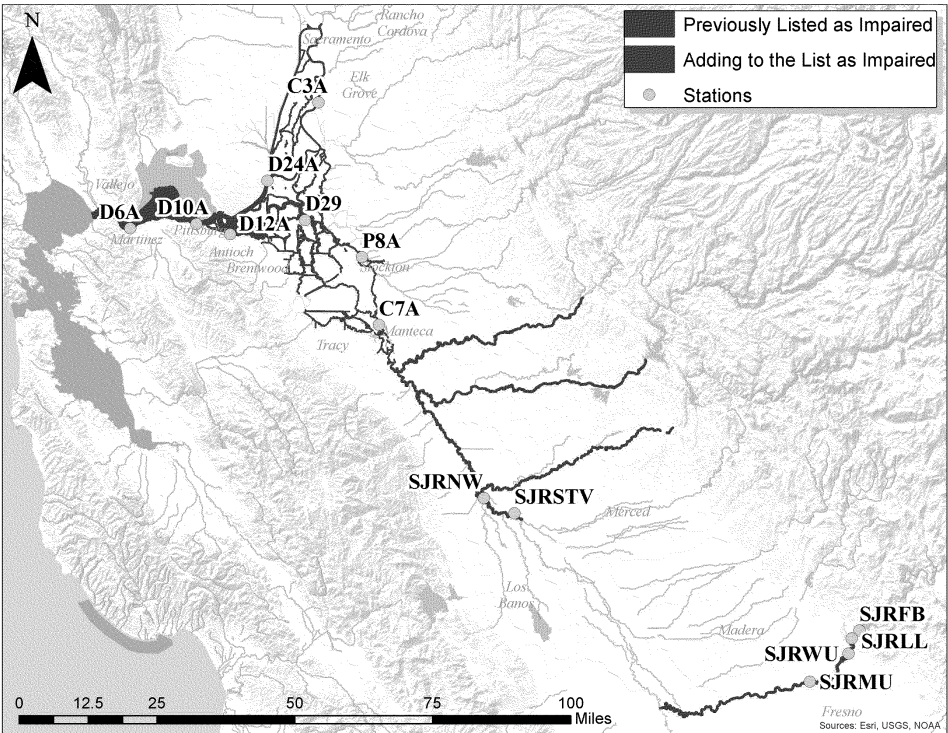
EPA gathered continuous Temperature data from two sources

- The Department of Water Resources (QA/QC’s CDEC data)
- The Department of Fish and Game (data from the upper San Joaquin Restoration project)



Waterbodies
Carquinez Straight
Suisun Bay
Sacramento San Joaquin Delta
Delta Waterways Western Portion
Delta Waterways Northern Portion
Delta Waterways Central Portion
Delta Waterways Southern Portion
San Joaquin (Mud Slough to Merced River)
San Joaquin (Bear Creek to Mud Slough)
San Joaquin (Friant Dam to Mendota)

Recommend adding 10 waterbodies to the 303(d) list





## Evaluating Temperature Data: Thresholds (1)

Central Valley Regional Board has a narrative objective for Temperature:

- The natural receiving water temperature of intrastate waters shall not be altered unless it can be demonstrated to the satisfaction of the Regional Water Board that such alteration in temperature does not adversely affect beneficial uses.
- At no time or place shall the temperature of COLD or WARM intrastate waters be increased more than 5°F above natural receiving water temperature.
- In determining compliance with the water quality objectives for temperature, appropriate averaging periods may be applied provided that beneficial uses will be fully protected.

Evaluating Temperature Data: Thresholds (2)

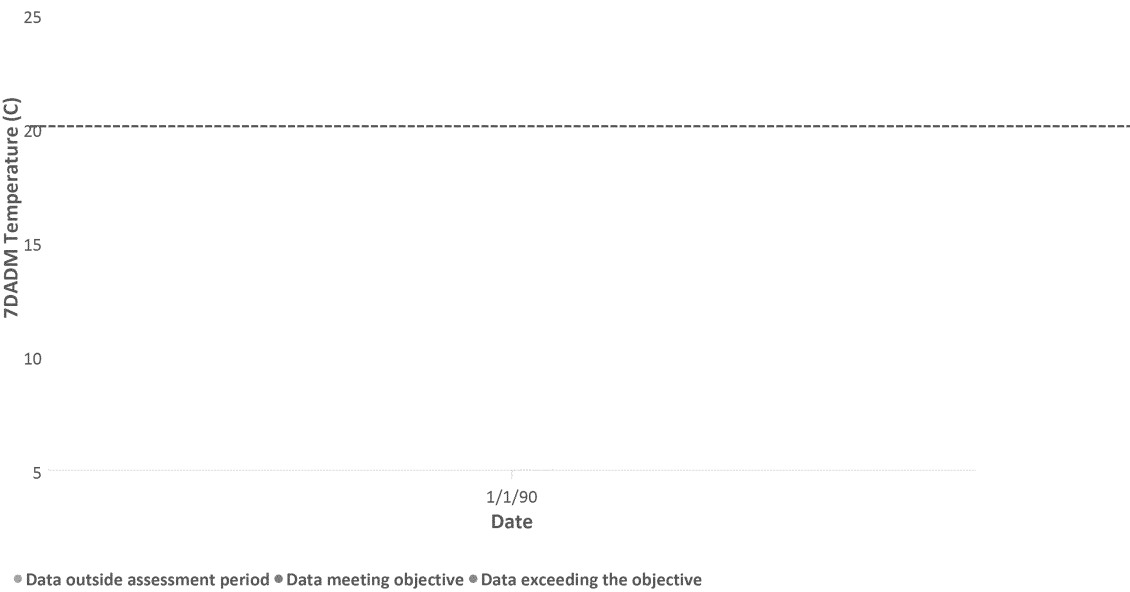
Regional Boards with narrative objectives use literature values to interpret the objective

EPA Region 10 Guidance for Pacific Northwest State and Tribal Temperature Water Quality Standards (2003).

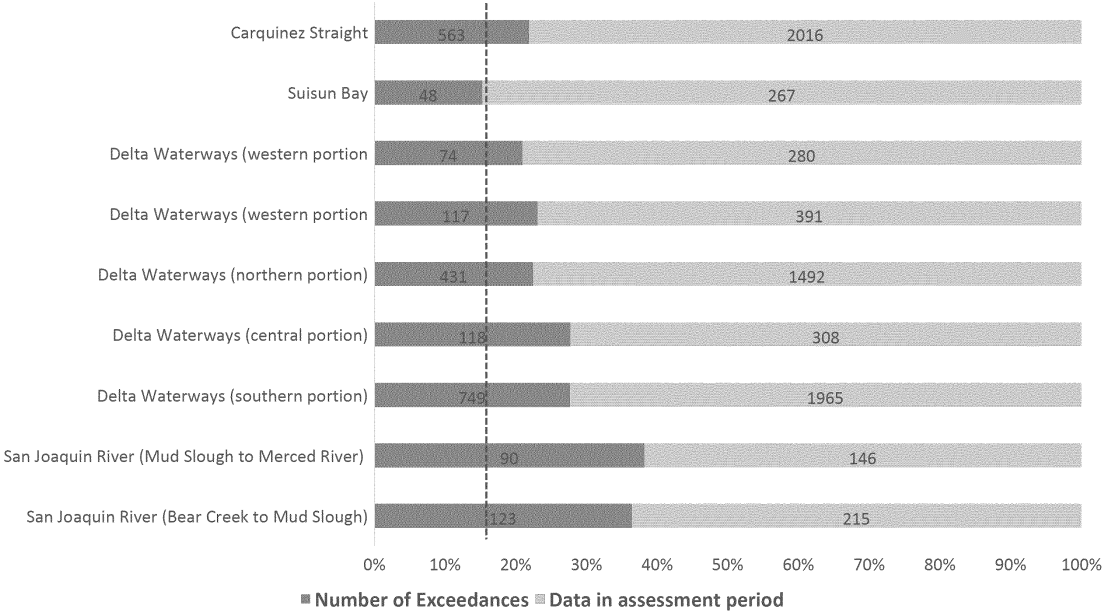
	7DADM Temp (C)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Migration (Salmon and Trout)	20												
Rearing (Steelhead)	18												
Rearing (Salmon and Trout)	16												
Spawning (Salmon and Trout)	13												

7DADM = the 7 day average daily maximum temperature value

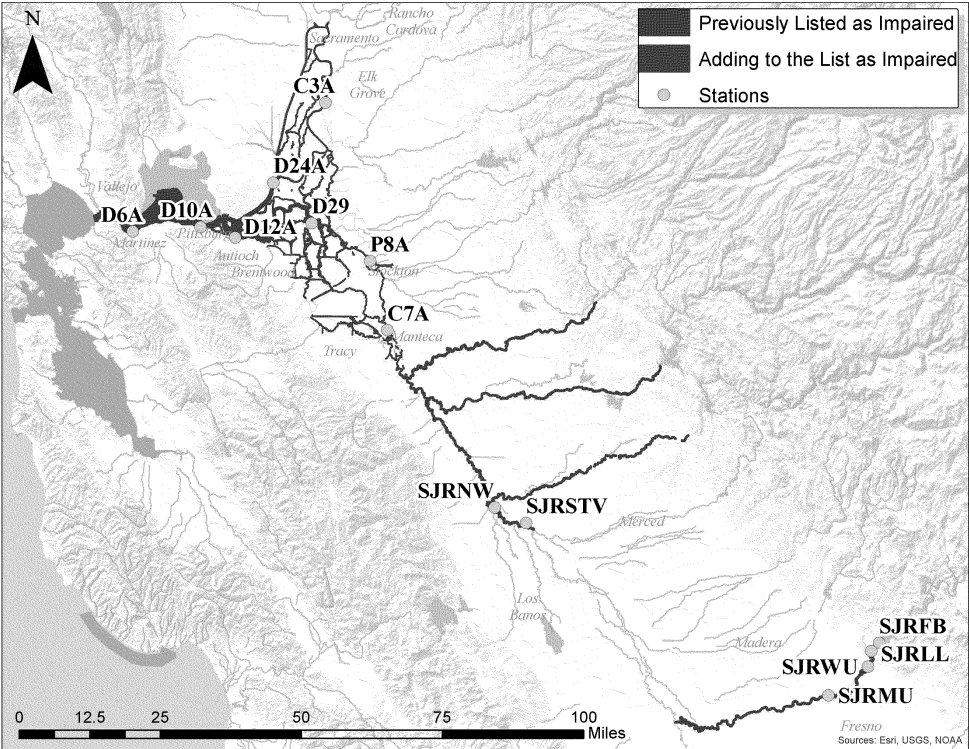
# Sacramento River at Mossdale



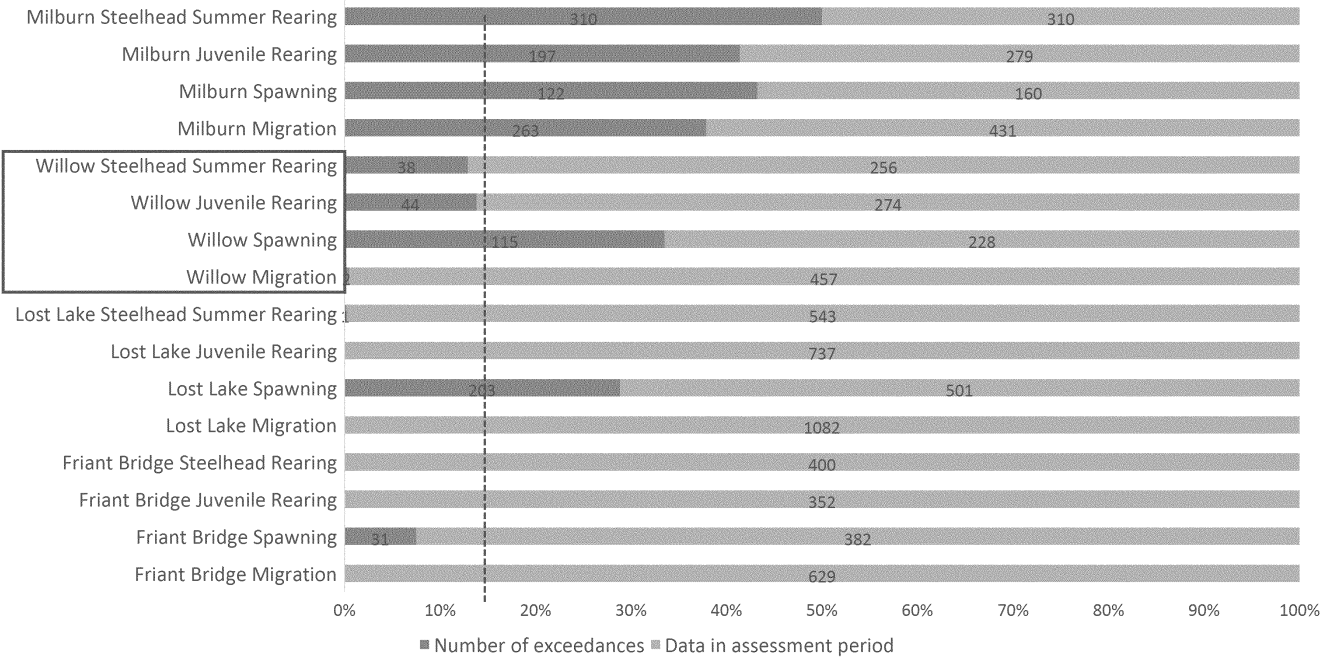
Assessment of 7DADM Temperature for Salmon and Trout Migration







Assessment of 7DADM Temperature in San Joaquin (Friant Dam to Mendota)



Recommend adding 10 waterbodies to the 303(d) list

Waterbodies
Carquinez Straight
Suisun Bay
Sacramento San Joaquin Delta
Delta Waterways Western Portion
Delta Waterways Northern Portion
Delta Waterways Central Portion
Delta Waterways Southern Portion
San Joaquin (Mud Slough to Merced River)
San Joaquin (Bear Creek to Mud Slough)
San Joaquin (Friant Dam to Mendota)

